IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

- 1. (currently amended) A storage unit comprising:
- a channel control portion for receiving a data input/output request;
- a cache memory for storing data;
- a disk control portion for performing input/output processing on data in accordance with said data input/output request; and
 - a plurality of disk drives for storing data,
- wherein at least two of said disk drives input data to and output it-data from said disk control portion at different communication speeds.
- 2. (currently amended) The storage unit according to claim 1, wherein said storage unit has a plurality of communication paths for connecting at least one of said disk drives in such a manner as to constitute a loop defined by the fiber channel standards Fibre Channel (FC) Standards; and

each of said communication speeds is different for each of said communication paths.

3.	(currently amended)AThe storage unit according to claim 1, further
comprising:	
———a disk	drive for storing data;

a disk control portion for communicating with said disk drive to thereby input said data to and output it from said disk drive;

—a generation portion for generating a clock signal by using a pulse signal transferred for said-communication between said disk control portion and said disk drives;

an identification portion for identifying a frequency of said pulse signal;

a frequency division portion for dividing a frequency of said clock signal at a frequency division ratio that corresponds to a frequency of said pulse signal; and a synchronization portion for synchronizing said pulse signal with said clock signal having said divided frequency.

- 4. (currently amended) The storage unit according to claim 3, wherein said communication is performed through a communication path which is provided to connect said disk control portion and at least one of said disk drives in such a manner as to constitute a loop defined by the FC-AL fiber channel standards

 Arbitrated Loop (AL) Standards.
- 5. (currently amended) The storage unit according to claim 3, wherein said identification portion comprises:

a charge accumulation portion for outputting a voltage that corresponds to a quantity of charge accumulated therein;

a charge quantity variation portion for varying said quantity of said charge accumulated in said charge accumulation portion, at a certain variation rate;

a charge quantity variation suppression portion for inhibiting said variation only during a certain lapse of time each time a signal level of said pulse signal is switched;

a signal output portion for outputting a signal that corresponds to whether said voltage output from said charge accumulation portion satisfies a criterion;

a time measurement portion for measuring a lapse of time that has elapsed since said quantity of said charge accumulated in said charge accumulation portion started to vary; and

a frequency identification portion for identifying said frequency based on said lapse of time from a moment when said quantity of said charge started to vary to a moment when said signal that indicates that said voltage of said charge accumulation portion satisfies said criterion was output.

- 6. (currently amended) The storage unit according to claim 5, wherein said communication is performed through a communication path provided to connect said disk control portion and at least one of said disk drives in such a manner as to constitute a loop defined by the FC-AL fiber channel standards Standards.
- (original) The storage unit according to claim 5, wherein:
 said charge quantity variation portion comprises a charging portion for charging said charge accumulation portion; and

said charge quantity variation suppression portion comprises:

a pulse deviation signal generation portion for generating a pulse deviation signal having its phase as shifted with respect to that of said pulse signal by certain time; and

a discharging portion for discharging said charge accumulation portion only in a period when there is a potential difference between said pulse signal and said pulse deviation signal.

	8.	(currently amended)A-Ine storage unit according to claim 1, luttrier
comprising:		
a disk drive for storing data;		
	a disk	control portion for communicating with said disk drive to thereby input
said data to and output it from said disk drive;		
———a generation portion for generating a clock signal by using a pulse signal		
transferred for said-communication between said disk control portion and said disk		
<u>drives;</u>		

a communication specifications decision portion for deciding whether said pulse signal satisfies said-predetermined communication specifications, when said pulse signal is read in a period of said clock signal;

a frequency division portion for dividing a frequency of said clock signal in accordance with a result of said decision; and

a synchronization portion for synchronizing said pulse signal with said clock signal having said divided frequency.

- 9. (currently amended) The storage unit according to claim 8, wherein said communication is performed through a communication path which is provided to connect said disk control portion and at least one of said disk drives in such a manner as to constitute a loop defined by the FC-AL fiber channel standards Standards.
- 10. (currently amended)A circuit for shaping a communication signal in a storage unit according to claim 1, comprising:

a generation portion for generating a clock signal by using a pulse signal transferred for communication between said disk control portion and said disk drives;

an identification portion for identifying a frequency of said pulse signal;

a frequency division circuit for dividing a frequency of said clock signal at a frequency division ratio that corresponds to a frequency of said pulse signal; and

a synchronization portion for synchronizing said pulse signal with said clock signal having said divided frequency.

11. (original) The circuit according to claim 10, wherein said identification portion comprises:

a charge accumulation portion for outputting a voltage that corresponds to a quantity of charge accumulated therein;

a charge quantity variation portion for varying said quantity of said charge accumulated in said charge accumulation portion, at a certain variation rate;

a charge quantity variation suppression portion for inhibiting said variation only during a certain lapse of time each time a signal level of said pulse signal is switched;

a signal output portion for outputting a signal that corresponds to whether said voltage output from said charge accumulation portion satisfies a criterion;

a time measurement portion for measuring a lapse of time that has elapsed since said quantity of said charge accumulated in said charge accumulation portion started to vary; and

a frequency identification portion for identifying said frequency based on said lapse of time from a moment when said quantity of said charge started to vary to a moment when said signal that indicates that said voltage of said charge accumulation portion satisfies said criterion was output.

12. (original) The circuit according to claim 11, wherein: said charge quantity variation portion comprises a charging portion for charging said charge accumulation portion; and

said charge quantity variation suppression portion comprises:

a pulse deviation signal generation portion for generating a pulse deviation signal having its phase as shifted with respect to that of said pulse signal by certain time; and

a discharging portion for discharging said charge accumulation portion only in a period when there is a potential difference between said pulse signal and said pulse deviation signal.

13. (currently amended)A circuit for shaping a communication signal in a storage unit according to claim 1, comprising:

a generation portion for generating a clock signal by using a pulse signal transferred for communication between said disk control portion and said disk drives;

a communication specifications decision portion for deciding whether said pulse signal satisfies specifications of said communication, when said pulse signal is read in a period of said clock signal;

a frequency division portion for dividing a frequency of said clocks signal in accordance with a result of said decision; and

a synchronization portion for synchronizing said pulse signal with said clock signal having said divided frequency.